

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1

of 1

Complete if Known

Application Number	09/868,501
Filing Date	September 26, 2001
First Named Inventor	Daniel G. CHAIN
Group Art Unit	1614
Examiner Name	SPIVACK
Attorney Docket Number	CHAIN=4A

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PS	CK	5,326,770		Wilkerson	07-05-1994	
	CL	5,652,214		Lewis et al	07-29-1997	
	CM	5,847,008		Doebber et al	12-08-1998	
	CN	5,859,051		Adams et al	01-12-1999	
	CO	5,900,409		Sakai et al	05-04-1999	
	CP	5,935,927		Vitek et al	08-10-1999	
	CQ	6,011,049		Whitcomb	01-04-2000	
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	CS	6,087,384		Matsui et al	07-11-2000	
	CT	6,090,836		Adams et al	07-18-2000	
	CU	6,090,839		Adams et al	07-18-2000	
	CV	6,117,853		Sakai et al	09-12-2000	
	CW	6,130,216		Antonucci et al	10-10-2000	
	CX	6,191,154	B1	Landreth et al	02-20-2001	

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		Office ³	Number					
PS	CY	EP	0 193 637	A1	Setoguchi et al	09-10-1986		
	CZ	WO	00/35437	A2	Chain et al	06-22-2000		

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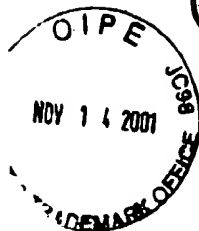
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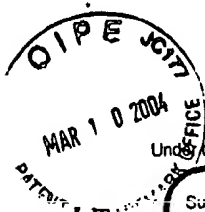
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PTO/SB/08a (08-03)

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Examiner Name	SPIVACK
Attorney Docket Number	CHAIN=4A

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		Number-Kind Code ² (if known)			
PS	DA	US-6,028,088	02-22-2000	Pershad Singh et al	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ⁴ Number ⁴ Kind Code ⁵ (if known)				
PS	DB	WO 99/16758 A1	04-08-1999	Reddy Research Found.		
PS	DC	WO 99/20614 A1	04-29-1999	Ready Res Found & Reddy- Cheminor, Inc.		
PS	DD	WO 99/38850 A1	08-05-99	Reddy Research Found.		
PS	DE	WO 00/23407 A2	04-27-2000	Glaxo Group Ltd & U So Car		
PS	DF	WO 00/23415 A1	04-27-2000	Novo Nordisk & Reddy Res		
PS	DG	WO 00/23416 A1	04-27-2000	Novo Nordisk & Reddy Res		
PS	DH	WO 00/23417 A1	04-27-2000	Novo Nordisk & Reddy Res		
PS	DI	WO 00/23445 A1	04-27-2000	Novo Nordisk & Reddy Res		
PS	DJ	WO 00/23451 A1	04-27-2000	Novo Nordisk & Reddy Res		
PS	DK	WO 00/32190 A1	06-08-2000	Case Western Reserve Un		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
PS	DL	COMBS et al, "Inflammatory Mechanisms in Alzheimer's Disease: Inhibition of β -Amyloid-Stimulated Proinflammatory Responses and Neurotoxicity by PPAR γ Agonists", <i>J Neurosci</i> 20(2):558-567 (2000)	

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First Named Inventor	Daniel G. CHAIN
Group Art Unit	1614
Examiner Name	SP/VA/CK
Attorney Docket Number	CHAIN-4A

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		Number	Kind Code ² (if known)			
PS	AA	3,929,813		Higuchi et al	12-30-1975	
PS	AB	3,962,447		Higuchi et al	06-08-1976	
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PS	AJ	5,166,320		Wu et al	11-24-1992	
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PS	BF	5,756,525		Hindley et al	06-26-1998	
PS	BG	5,962,004		Jannetta	10-05-1999	

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09/868,501

Filing Date**First Named Inventor**

Daniel G. CHAIN

Group Art Unit

Examiner Name

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[illegible]

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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PS	BI	BEGLEY et al, "Permeability of the blood-brain barrier to the immunosuppressive cyclic peptide cyclosporin A", <u>J Neurochem</u> 55(4):1222-1230 (1990),	
PS	BJ	BLUM-DEGEN et al, "Altered regulation of brain glucose metabolism as a cause of neurodegenerative disorders?", <u>J Neural Transm Suppl</u> 46:139-417 (1995).	
PS	BK	BODOR et al, "Molecular Packaging: Peptide Delivery to the Central Nervous System by Sequential Metabolism" in <u>Peptide-Based Drug Design: Controlling Transport and Metabolism</u> , Taylor et al (Eds.); Chapter 14, pp. 317-337 (1995).	
PS	BL	BODOR et al, "Site-specific, sustained release of drugs to the brain", <u>Science</u> 214(4527):1370-1372 (1981),	
PS	BM	BODOR et al, "Problems of delivery of drugs to the brain", <u>Pharmacol Ther</u> 19:(3)337-386 (1982),	
PS	BN	BODOR et al, "A strategy for delivering peptides into the central nervous system by sequential metabolism", <u>Science</u> 257(5077):1698-1700 (1992)	

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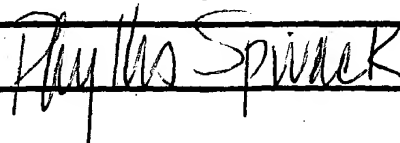
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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
PS	BO	BUCKLE et al, "Non Thiazolidinedione Antihyperglycaemic Agents, 1: α -Heteroatom Substituted β -Phenylpropanoic Acids", <i>Biol & Med Chem Letter</i> 6(17):2121-2126 (1996) .	
PS	BP	CANTELO et al, "[ω -(Heterocyclamino)alkoxy]benzyl]-2,4-thiazolidinediones as potent antihyperglycemic agents", <i>J Med Chem</i> 37(23):3977-3985 (1994) .	
PS	BQ	CLARKE et al, "Insulin binds to specific receptors and stimulates 2-deoxy-D-glucose uptake in cultured glial cells from rat brain", <i>J Biol Chem</i> 259(19):11672-11675 (1984) .	
PS	BR	CULLINGFORD et al, "Distribution of mRNAs encoding the peroxisome proliferator-activated receptor alpha, beta, and gamma and the retinoid X receptor alpha, beta, and gamma in rat central nervous system", <i>J Neurochem</i> 70(4):1366-1375 (1998) .	
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PS	BT	DORÉ et al, "Distribution and levels of [125I]IGF-I, [125I]IGF-II and [125I]Insulin receptor binding sites in the hippocampus of aged memory-unimpaired and -impaired rats", <i>Neuroscience</i> 80(4):1033-1040 (1997) .	
PS	BU	DOYLE et al, "Four-day hyperinsulinemia in euglycemic conditions alters local cerebral glucose utilization in specific brain nuclei of freely moving rats", <i>Brain Res</i> 684(1):47-55 (1995) .	
PS	BV	DUELLI et al, "Intracerebroventricular injection of streptozotocin induces discrete local changes in cerebral glucose utilization in rats", <i>Int J Dev Neurosci</i> 12(8):737-743 (1994) .	
PS	BW	GRANNEMAN et al, "Member of the peroxisome proliferator-activated receptor family of transcription factors is differentially expressed by oligodendrocytes", <i>J Neurosci Res</i> 51(5):563-573 (1998) .	
PS	BX	HASSELBALCH et al, "No Effect of Insulin on Glucose Blood-Brain Barrier Transport and Cerebral Metabolism in Humans", <i>Diabetes</i> 48:1915-1921 (1999) .	
PS	BY	HOYER et al, "Brain glucose metabolism is controlled by amplification and desensitization of the neuronal insulin receptor", <i>Ann N Y Acad Sci</i> 777:374379 (1996) .	
PS	BZ	KITAMURA et al, "Increased expression of cyclooxygenases and peroxisome proliferator-activated receptor-gamma in Alzheimer's disease brains", <i>Biochem Biophys Res Commun</i> 254(3):582-586 (1999) .	

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PS	CA	KITAMURA et al, "Activators of peroxisome proliferator-activated receptor-gamma (PPARgamma) inhibit inducible nitric oxide synthase expression but increase heme oxygenase-1 expression in rat glial cells", <u>Neurosci Lett</u> 262(2):129-132 (1999).	
PS	CB	KUMAGAI, "Glucose Transport in Brain and Retina: Implications in the Management and Complications of Diabetes", <u>Diabetes metab Res Rev</u> 15(4):261-273 (1999).	
PS	CC	MUKHERJEE et al, "Sensitization of diabetic and obese mice to insulin by retinoid X receptor agonists", <u>Nature</u> 386(6623):407-410 (1997).	
PS	CD	NAKAYAMA et al, "Effect of TAK-147, a novel AChE inhibitor, on cerebral energy metabolism", <u>Neurobiol Aging</u> 17(6):849-857 (1996).	
PS	CE	NEUWELT et al, "Modification of the blood-brain barrier in the chemotherapy of malignant brain tumors", <u>Fed Proc</u> 43(2):214-219 (1984).	
PS	CF	PARDRIDGE, "Receptor-mediated peptide transport through the blood-brain barrier", <u>Endocr Rev</u> 7(3):314-330. Review (1986).	
PS	CG	PETROVA et al, "Cyclopentenone prostaglandins suppress activation of microglia: down-regulation of inducible nitric-oxide synthase by 15-deoxy-Delta12,14-prostaglandin J2", <u>Proc Natl Acad Sci USA</u> 96(8):4668-4673 (1999).	
PS	CH	POPLACK et al, "Pharmacology of Antineoplastic Agents in Cerebrospinal Fluid" in <u>Neurobiology of Cerebrospinal Fluid</u> , J.H. Wood (Ed). Plenum Press (New York, 1981), pp. 561-578.	
PS	CI	PROKAI et al, "Chemical Delivery System to Transport a Pyroglutamate Peptide Amide to the Central Nervous System", <u>J Am Chem Soc</u> 116:2643-2644 (1994).	
PS	CJ	TSUZUKI et al, "Adamantane as a brain-directed drug carrier for poorly absorbed drug: antinociceptive effects of [D-Ala2]Leu-enkephalin derivatives conjugated with the 1-adamantane moiety", <u>Biochem Pharmacol</u> 41(4):R5-8 (1991).	

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